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Titel: METHOD FOR ALIGNING SEMICONDUCTOR ELEMENT

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## Zusammenfassung

**PURPOSE:** To improve the joining accuracy of a semiconductor element with a substrate and, at the same time, to simplify the facility by recognizing the alignment mark on the semiconductor element and two alignment marks on a substrate by means of one optical system.

**CONSTITUTION:** the position of a substrate 1 is corrected so that the substrate 1 can be brought to a fixed position with an X-Y table 11 and  $\theta$  table 10 by recognizing an alignment mark 21 on the substrate 1 and calculating the difference of the mark 21 with another alignment mark 20 on the substrate 1. The position of a semiconductor element 2 is corrected so that the element 2 can be brought to a fixed position with an X-Y table 8 and the  $\theta$ -rotation of a vacuum adsorption nozzle 3. At the time of joining the semiconductor element 2 with the substrate 1, the vacuum adsorption nozzle 3 holding the element 2 by adsorption is lowered to the joining position and the joined state is confirmed with a recognizing camera 13.

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